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(71) Applicant (for all designated States except US): **SHELL
INTERNATIONALE RESEARCH MAATSCHAPPIJ
B.V.** [NL/NL]; Carel van Bylandtlaan 30, NL-2596 HR
The Hague (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DIRKZWAGER,
Hendrik** [NL/NL]; Badhuisweg 3, NL-1031 CM Amster-
dam (NL). **GELJSEL, Joannes Ignatius** [NL/NL]; Carel
van Bylandtlaan 30, NL-2596 HR The Hague (NL).

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(54) Title: A PROCESS FOR THE PREPARATION OF DETERGENTS

(57) Abstract: The invention concerns a process for the preparation of detergents, comprising separating the hydro carbonaceous product stream from a Fischer-Tropsch, process producing normally liquid and normally solid hydrocarbons into a light fraction comprising mainly C₂₀hydrocarbons, preferably the light fraction comprising at least 90 %wt, more preferably at least 95 %wt, of C₂₀hydrocarbons, and one or more heavy fractions comprising the remaining hydrocarbons, hydrogenation of at least part of the light fraction to convert unsaturated hydrocarbons and/or oxygenates into saturated hydrocarbons, distillation of product thus obtained into at least one fraction comprising detergent hydrocarbons, dehydrogenation of at least part of the detergent hydrocarbons to obtain a detergent hydrocarbon stream comprising mono-olefins and conversion of the mono-olefins into detergents. The invention further concerns a process for the preparation of detergents in which process a hydrogenated product, which is obtained according to the above process, is dehydrogenated to obtain a detergent hydrocarbon stream comprising monoolefins, followed by conversion of the mono-olefins into detergents. Further, the invention relates to the combined production of detergents or detergent hydrocarbons and fuels from Fischer-Tropsch hydrocarbonaceous reaction product.

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